

**Introduction:**

Will the same pressure that is created when you shake a coke bottle apply when someone drinks a Coke and runs? We chose this question because I enjoy playing sports and I my coach always told me not to drink Coke during games. I wanted to see if he was right.

When researching on the internet I found one source that said water was far superior. They believed the sugars in soda robs your body of minerals and vitamins and a runner is putting more ware and tare on muscles and joints.

Site: <http://answers.yahoo.com/question/index?qid=20060901213204AAXz467>

**Hypothesis:**

My hypotheses is that the pressure created by the coke getting shaken up in the person (that's running) will create pressure in their stomach and make them burp or hiccup

**Materials:**

- 8 glasses of Coca-Cola
- 8 people
- A clock for timing
- Paper and a pencil to take notes

**Procedure:**

1. 2 people will drink a glass of Coke at the same time approximately 100ml
2. One will run around the building- a jog of about four minutes or 300 yards
3. the other person will sit down for 5 minutes
4. We will count how many times they each burp within 5 minutes after drinking the Coke
5. We will repeat the procedure four times.

**Data:**

**First Time**

**How Many Times They Each Burped**

|                 |         |
|-----------------|---------|
| Ben (running)   | 8 Times |
| Jacob (sitting) | 3 Times |

### Second Time

#### How Many Times They Each Burped

|                 |         |
|-----------------|---------|
| Me (running)    | 3 Times |
| Emily (sitting) | 2 Times |

### Third Time

#### How Many Times They Each Burped

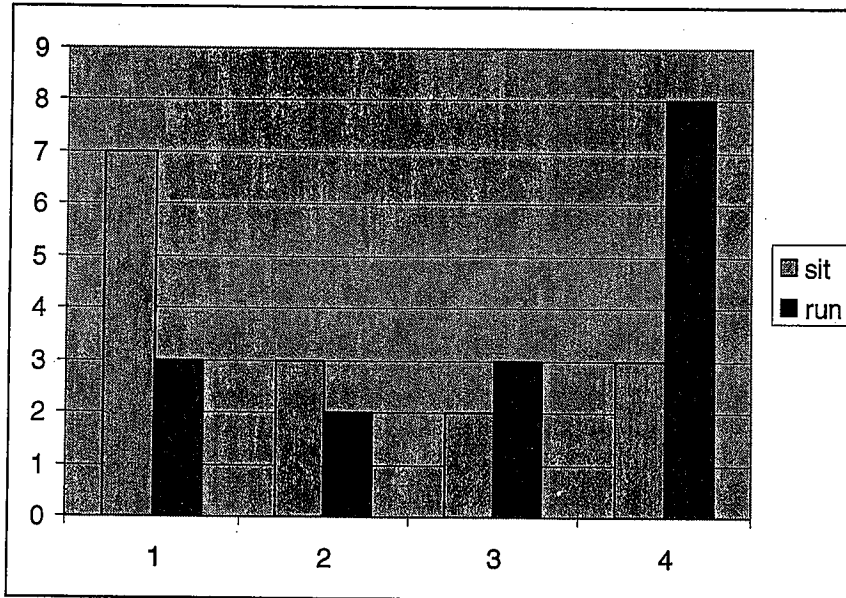
|                  |         |
|------------------|---------|
| AJ (running)     | 2 Times |
| Louise (sitting) | 3 Times |

### Fourth Time

#### How Many Times They Each Burped

|                  |         |
|------------------|---------|
| Kate (running)   | 3 Times |
| Kelley (sitting) | 7 Times |

In graph form...



## Analysis

An average of 4 burps were released by the runners. While an average of 3.75 by the runners. We had two extreme answers for both the sitters and the runners.

## Conclusion:

Our data indicated that the running does not significantly affect the number of times that you burp. This being said, our hypothesis did not prove true during this experiment. My guess is that watching the drinkers and runners more carefully would have resulted in clearer results, which would have probably meant something in relation to our hypothesis. By watching them I mean count how many times they hiccup, make sure they don't get up and move around, etc. Or as our internet research suggested long term muscle deterioration or injury.

To expand this experiment and to better the results I would have liked to test on the same people on different days. By testing different sized people, the results probably varied because the carbon dioxide have take taken longer to travel through the bigger person's system. Or someone's pervious history of soda drinking could affect they're immunity to carbon dioxide.

In conclusion, our hypothesis did not seem to be correct, and the results varied in each one of the tests. Coke-a-cola should look at these results as well as athletic coaches. This test shows that if Coke made an energy drink, they would have to have less carbon dioxide in it. It also shows that people should not drink Coke as an active drink for sports.

